

Claims

1. A discharge device for discharging crops from a harvesting machine, comprising a rotatable rotor mounted in a housing with a bottom, characterized in that the bottom can be moved in a direction of motion back-and-forth.

2. The discharge device as defined by claim 1 wherein the rotatable rotor has a circumference and the direction of motion of the bottom is tangential to the circumference of the rotor.

3. The discharge device as defined by claim 2 wherein the bottom is provided with a step-shaped shoulder.

4. A combine comprising
a supporting structure;
a threshing assembly for threshing harvested crop material is mounted to the supporting structure;
a separating assembly for separating threshed crop material is mounted to the supporting structure;
a cleaning assembly including a cleaning shoe for removing chaff from grain;
a discharge device for discharging chaff from the combine, comprising a rotatable rotor mounted in a housing with a bottom mounted to the supporting structure, characterized in that the bottom can be moved in a direction of motion back-and-forth.

5. The combine as defined by claim 4 wherein the rotatable rotor has a circumference and the direction of motion of the bottom is tangential to the circumference of the rotor.

6. The combine as defined by claim 5 wherein the bottom is provided with a step-shaped shoulder.

7. The combine as defined by claim 5 wherein the discharge device is a blower.

8. The combine as defined by claim 5 wherein the discharge device is a straw chopper that receives separated crop material from the separating assembly.

9. The combine as defined by claim 8 wherein the separated crop material from the separating assembly defines a first crop residue stream, the chaff from the cleaning assembly defines a second crop residue stream; and the second crop residue stream can be fed to the bottom.

10. The combine as defined by claim 9 wherein the second crop residue stream can be fed to the bottom by means of an oscillating bottom.

11. The combine as defined by claim 10 wherein the oscillating bottom and the bottom are connected mechanically to the cleaning shoe, the oscillating bottom and the bottom can be set into an oscillating motion by movement of the cleaning shoe.

12. The combine as defined by claim 11 wherein the bottom is connected to the oscillating bottom by a pivotable joint.

13. The combine as defined by claim 11 wherein the bottom is rigidly connected to the oscillating bottom.

14. The combine as defined by claim 11 wherein the first crop residue stream can be fed to the discharge device in a chopping mode and can be led past the discharge device in a long-stalk straw deposition mode and laid on a field as a swath, and the second crop stream can be fed to the discharge device in the chopping mode and the long-stalk straw deposition mode.